



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

05352

SHEET 1 OF 1

DWG NO. 647.1700

REV: D

PREPARED BY J. BECKER

DATE: 03/21/16

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: SKID DEFLECTOR ASSY

APPROVED BY:

ENGR

MFG

QC

EFF. CURRENT STOCK

TRANSACTION CODES (TC):
A-ADD
R-REVISE
C-CREATE
D-DELETE

REASON: REVISED VIEWS ON PAGE 2.

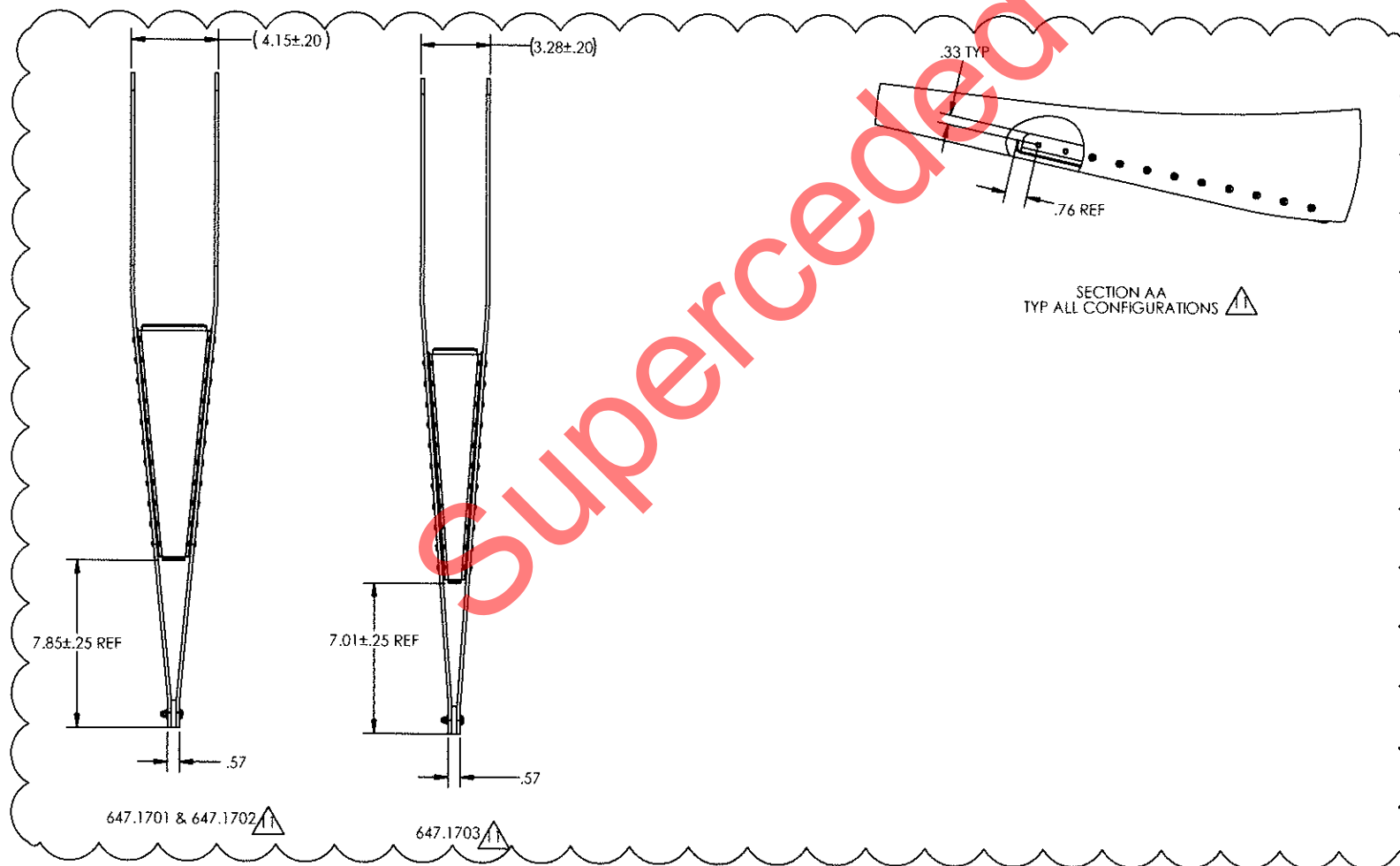
ECR:

N/A

ACTION ITEM:

1.

SHEET 2 IS:



DOCUMENTS EFFECTED:

☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☐ BOM

CHANGE CATEGORY

☐ MAJOR ☒ MINOR

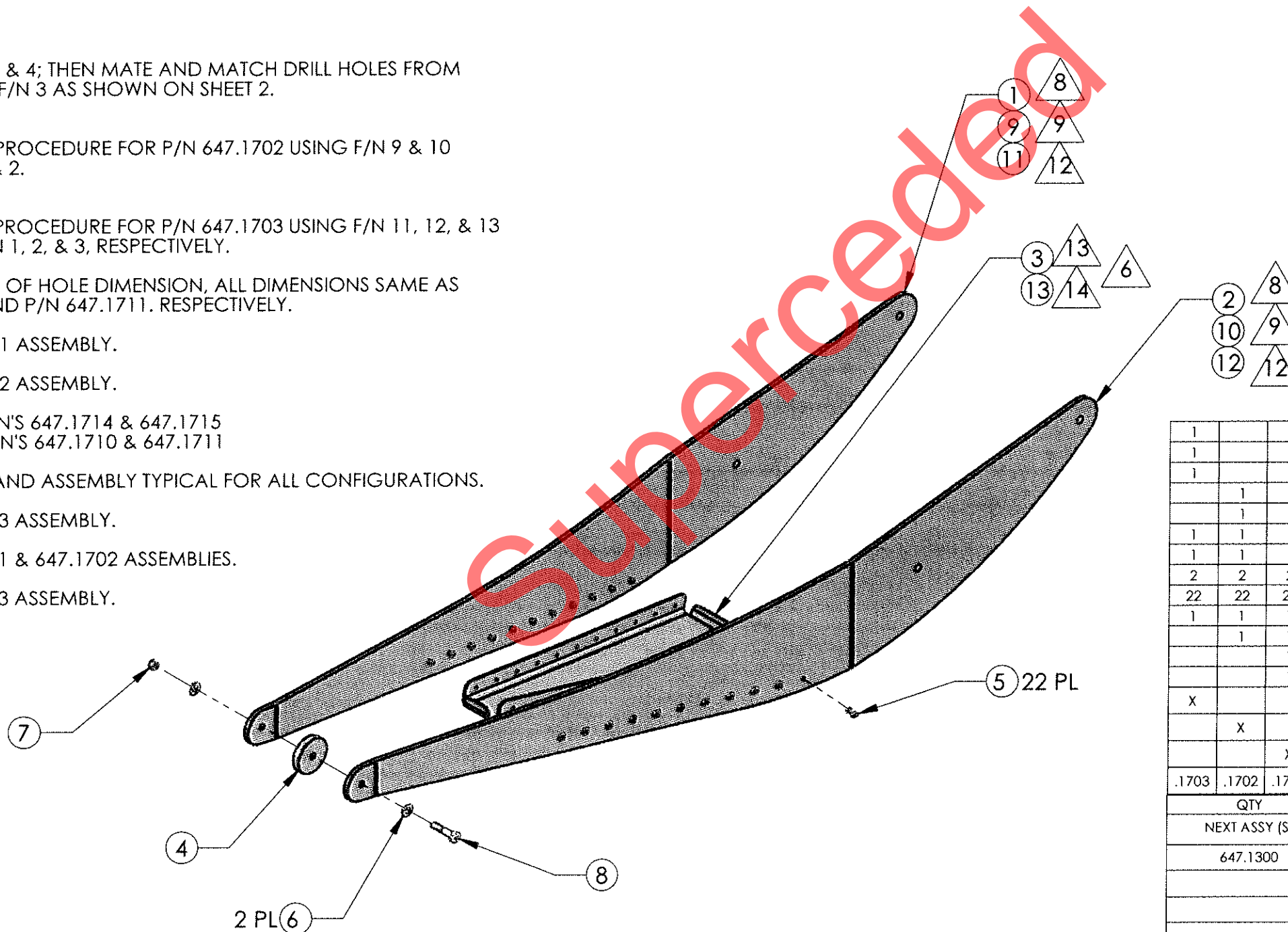
DER REVIEW REQUIRED

☒ YES ☐ NO

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NOTES:

- 1 MATERIAL: 7075-T6 ALUMINUM PER AMS-QQ-A-250/12.
- 2 MATERIAL: 6061-T6 ALUMINUM BAR IAW AMS-QQ-A-250/11.
- 3 FINISH IAW MPP-172, SECTIONS 2.1, 3.1, & 4.2.
4. DEBURR AND BREAK ALL SHARP EDGES.
5. IDENTIFY IAW MPP-120.
- 6 P/N 647.1701:
CLAMP F/N 1, 2, & 4; THEN MATE AND MATCH DRILL HOLES FROM F/N 1 & 2 ONTO F/N 3 AS SHOWN ON SHEET 2.
- P/N 647.1702:
FOLLOW SAME PROCEDURE FOR P/N 647.1702 USING F/N 9 & 10 IN PLACE OF 1 & 2.
- P/N 647.1703:
FOLLOW SAME PROCEDURE FOR P/N 647.1703 USING F/N 11, 12, & 13 IN PLACE OF F/N 1, 2, & 3, RESPECTIVELY.
- 7 WITH EXCEPTION OF HOLE DIMENSION, ALL DIMENSIONS SAME AS P/N 647.1710 AND P/N 647.1711. RESPECTIVELY.
- 8 FOR P/N 647.1701 ASSEMBLY.
- 9 FOR P/N 647.1702 ASSEMBLY.
- 10 .323" DIA FOR P/N'S 647.1714 & 647.1715
.257" DIA FOR P/N'S 647.1710 & 647.1711
- 11 RIVET SPACING AND ASSEMBLY TYPICAL FOR ALL CONFIGURATIONS.
- 12 FOR P/N 647.1703 ASSEMBLY.
- 13 FOR P/N 647.1701 & 647.1702 ASSEMBLIES.
- 14 FOR P/N 647.1703 ASSEMBLY.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
N/C	LAST PROTOTYPE REVISION: PR2		N/C
A	INITIAL RELEASE	08/05/09	P. BRAVO
B	INCORPORATED ECN'S 02937 & 03921	06/07/13	P. BRAVO
C	INCORPORATED ECN 03970	07/03/13	P. BRAVO
D	INCORPORATED ECN 04058	08/14/13	P. BRAVO
E	INCORPORATED ECN'S 04679, 04702 & 04964	05/29/15	P. BRAVO

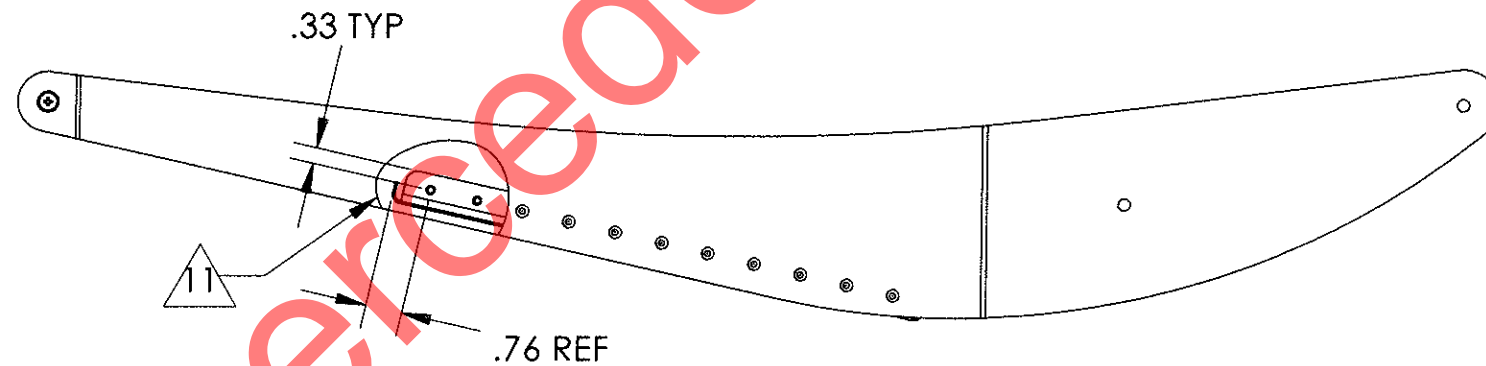
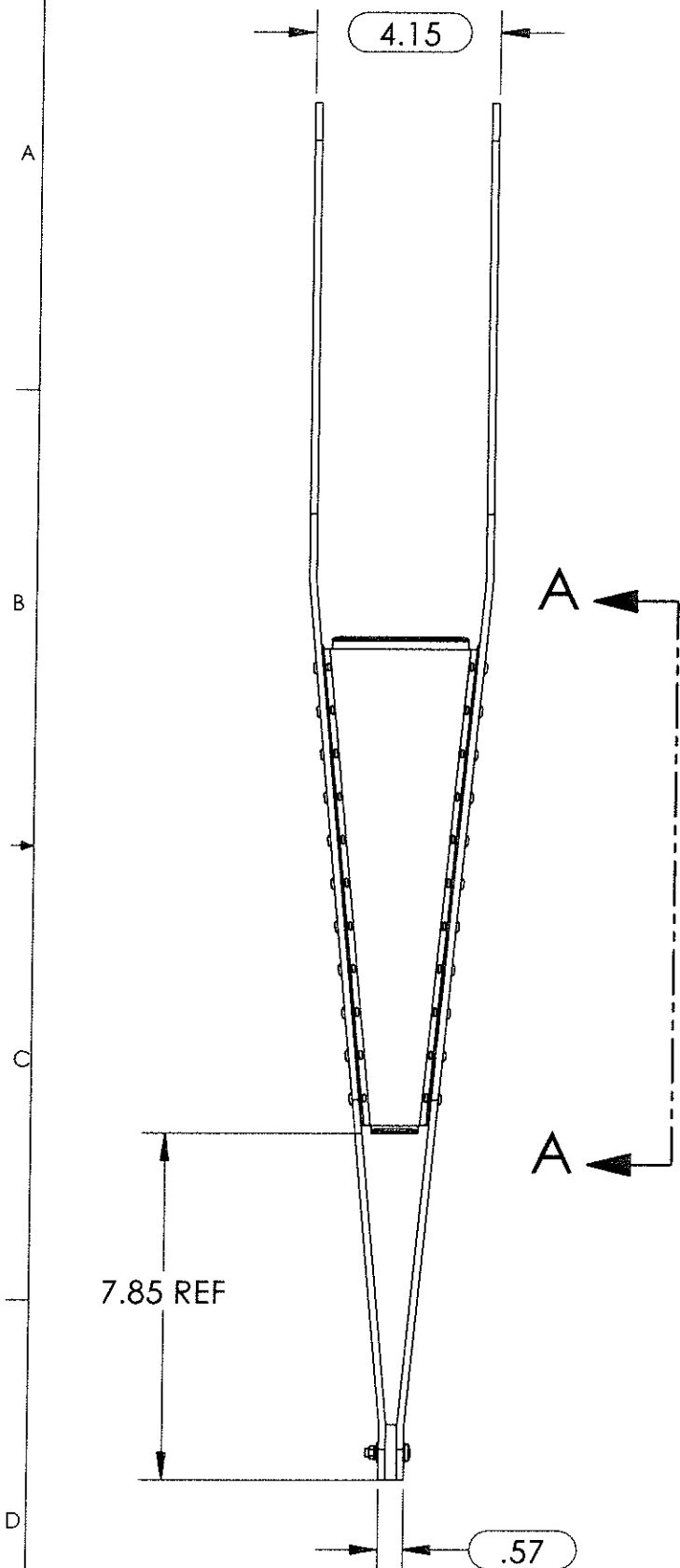
UNINCORPORATED ECN(S)

05352

1			13	647.1718	GUSSET		
1			12	647.1717	PLATE		
1			11	647.1716	PLATE		
	1		10	647.1715	PLATE		
	1		9	647.1714	PLATE		
1	1	1	8	601.1622	SCREW	MS27039-1-14	
1	1	1	7	601.2943	LOCKNUT	MS21042-3	
2	2	2	6	601.1607	WASHER	NAS1149F0332P	
22	22	22	5	601.1915	RIVET	CR3213-4-4	
1	1	1	4	647.1713	SPACER		
	1	1	3	647.1712	GUSSET		
		1	2	647.1711	PLATE		
		1	1	647.1710	PLATE		
X				647.1703	SKID DEFLECTOR ASSY		
	X			647.1702	SKID DEFLECTOR ASSY		
		X		647.1701	SKID DEFLECTOR ASSY		
.1703	.1702	.1701	FIND #	PART #	DESCRIPTION	MATL	SPEC.

QTY		PARTS LIST	
NEXT ASSY (S)		ORIGINAL DATE (MO-DA-YR) 08/05/09	
647.1300		DRAWN BY J. GARDINER	
		CHECKER P. BRAVO	
		DRAWING APPROVAL	
		P. BRAVO	
		08/05/09	
		CONTRACT NO.	
		UNLESS OTHERWISE SPECIFIED	
		DIMENSIONS ARE IN INCHES	
		TOLERANCES ARE:	
		2 PLACE DECIMALS ±.01	
		3 PLACE DECIMALS ±.005	
		ANGLES ± 5°	
		DART AEROSPACE	
		3030 ENTERPRISE CT., SUITE A	
		VISTA, CA. 92081	
		(760)724-5300	
		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
		SKID DEFLECTOR ASSY	
SIZE	CAGE CODE	DWG. NO.	REV.
B	07MZ6	647.1700	D
SCALE NONE		SHEET 1 OF 7	

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SECTION A-A

ORIGINAL DATE (MO-DA-YR) 08/05/09		3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760) 724-5300	
DRAWN BY J. GARDINER		CHECKER P. BRAVO	
DRAWING APPROVAL P. BRAVO		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
CONTRACT No.		SKID DEFLECTOR ASSY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.1700
SCALE NONE		REV D	
SHEET 2 OF 7			

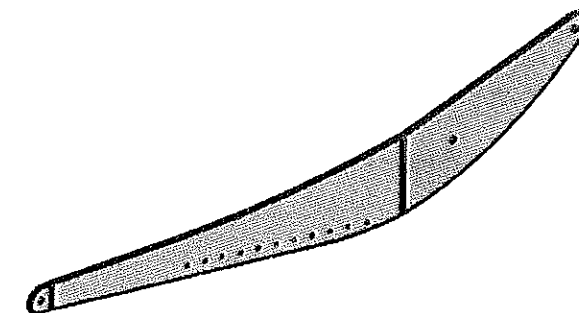
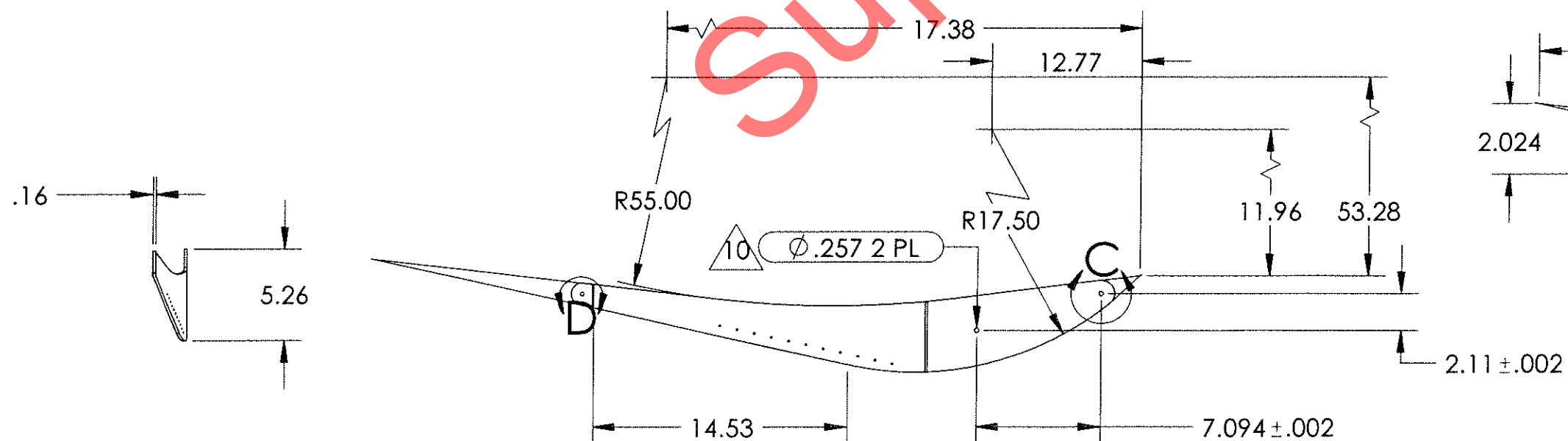
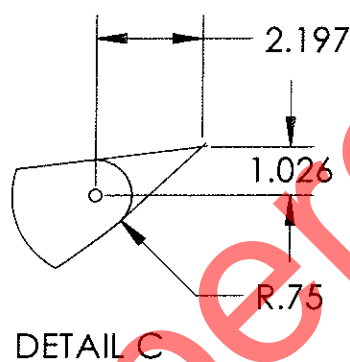
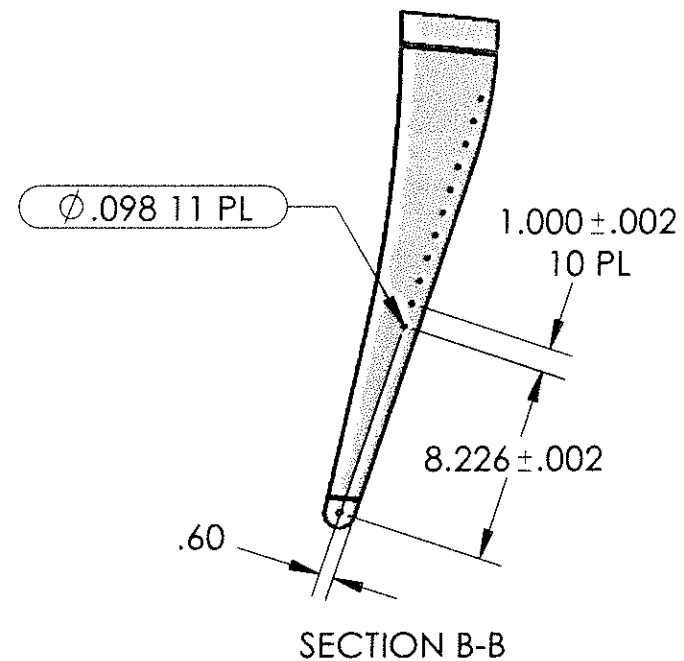
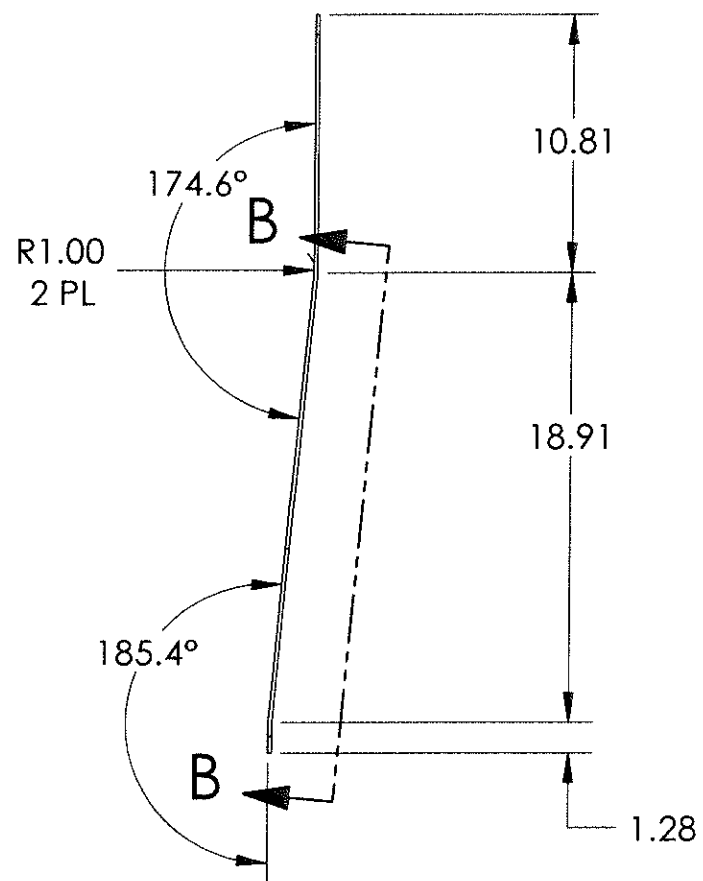
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A

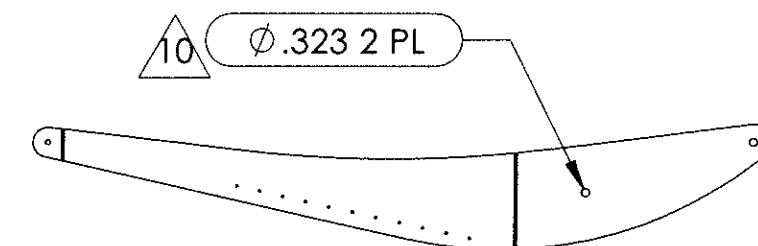
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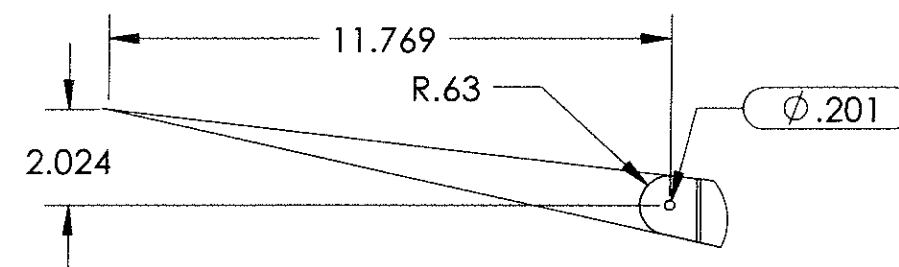
D



647.1711 SHOWN
647.1710 OPPOSITE



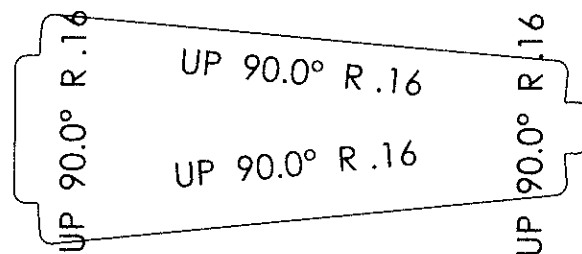
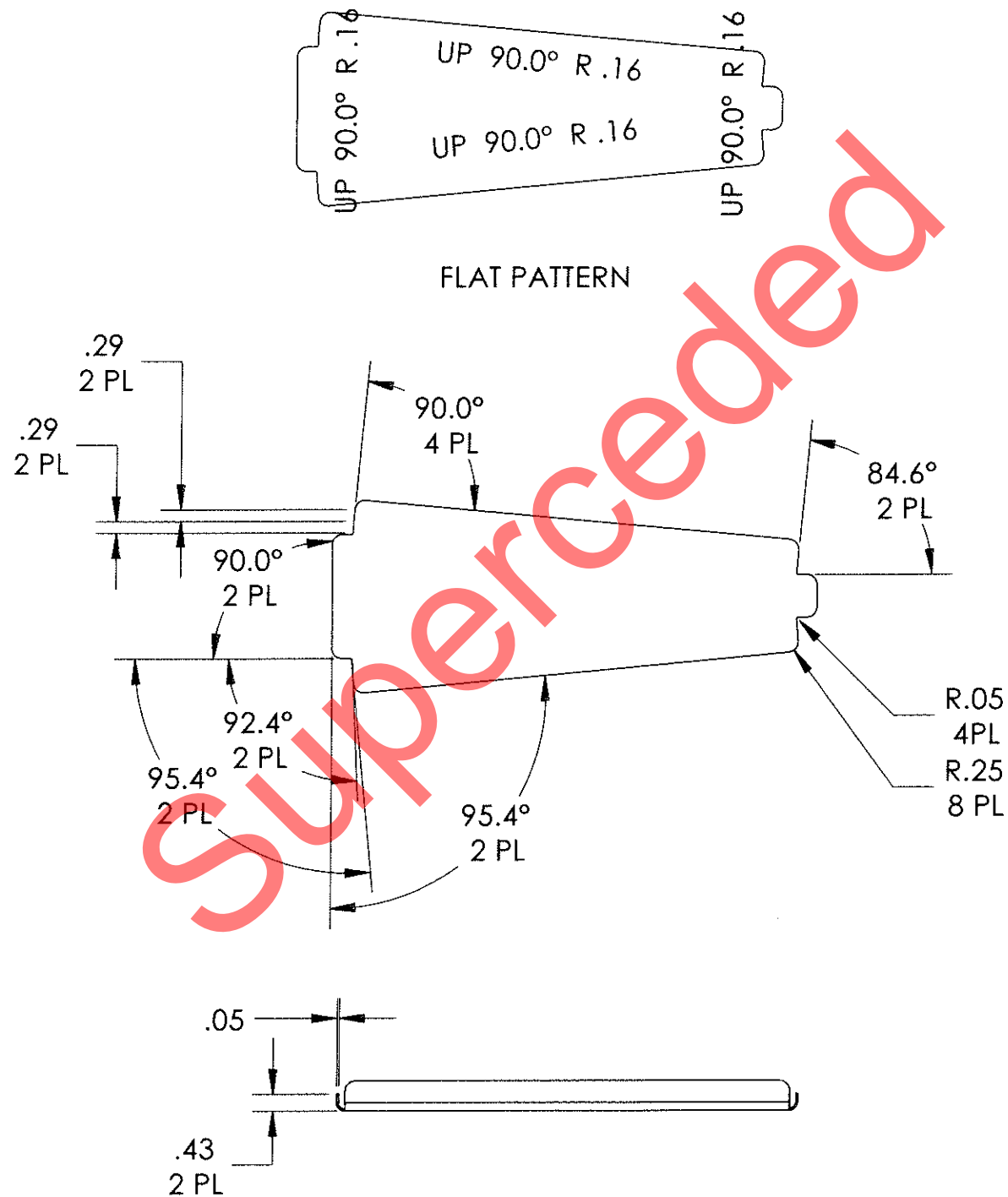
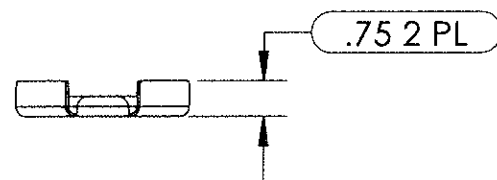
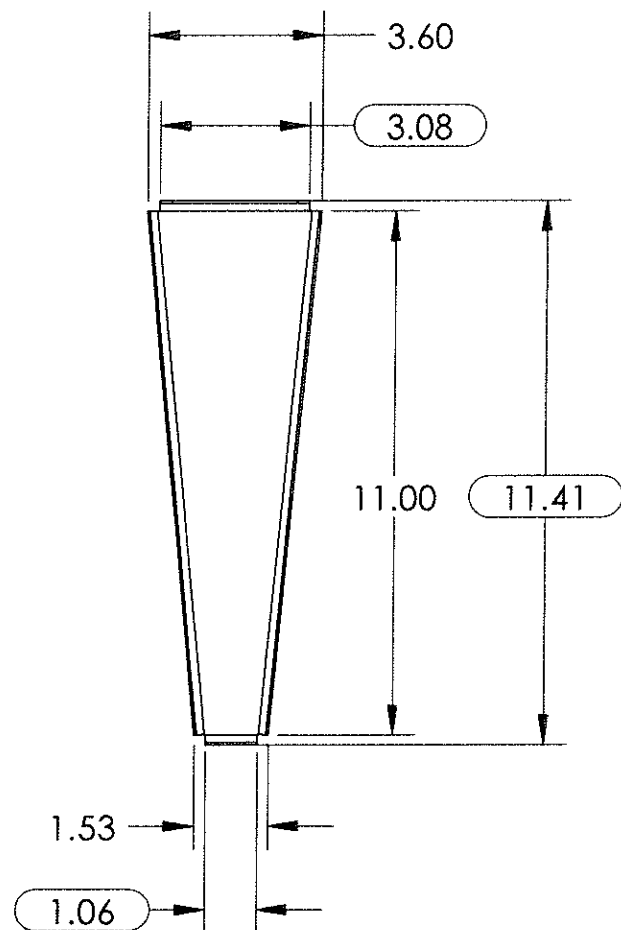
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647.1715 OPPOSITE



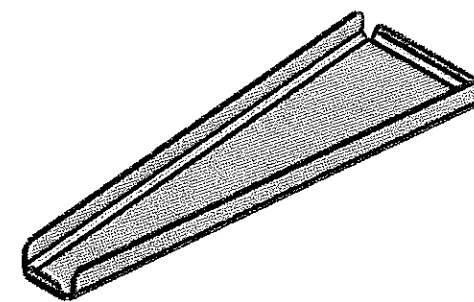
DETAIL D

ORIGINAL DATE (MO-DA-YR) 08/05/09	DRAWN BY J. GARDINER	CHECKER P. BRAVO	3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760) 691-9108	
DRAWING APPROVAL P. BRAVO			DART AEROSPACE	
CONTRACT NO.			APICAL INDUSTRIES, INC. dba DART AEROSPACE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± 5°			SKID DEFLECTOR ASSY	
SIZE B	CAGE CODE 07M26	DWG. NO. 647.1700	REV. D	
SCALE: NONE			SHEET 3 OF 7	


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FLAT PATTERN

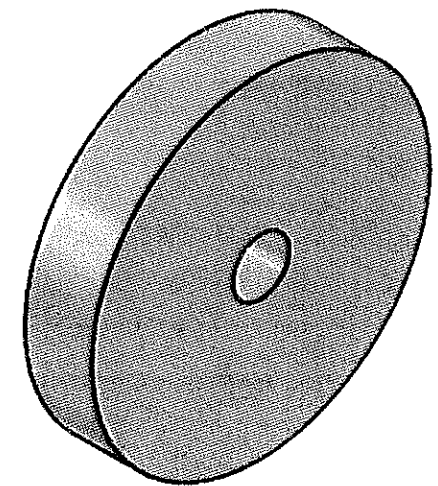
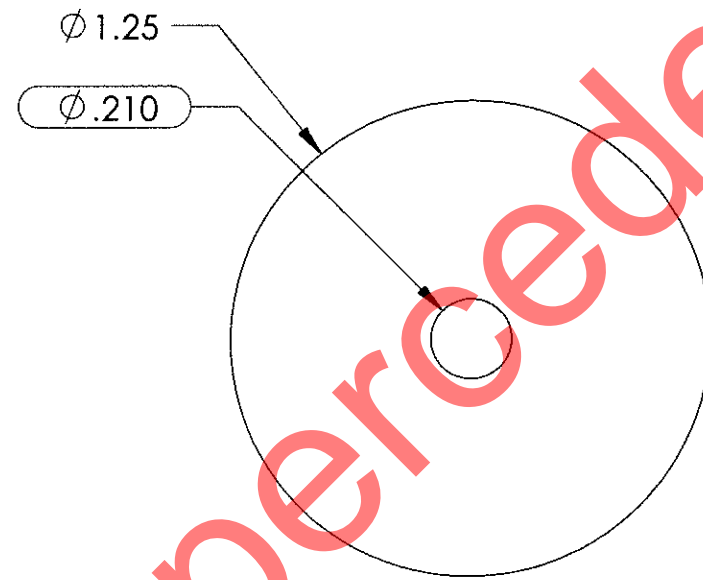
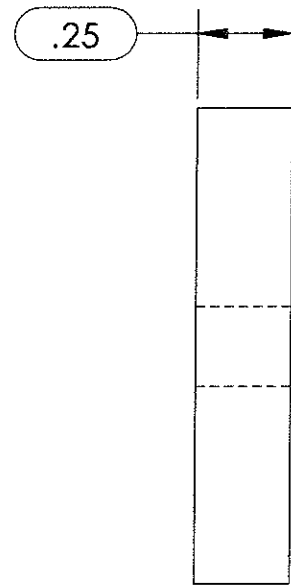


647.1712

ORIGINAL DATE (MO-DA-YR) 08/05/09	 DART 3030 ENTERPRISE CT SUITE A VISTA, CA. 92081 (760)724-5300			
DRAWN BY J. GARDINER				CHECKER P. BRAVO
DRAWING APPROVAL P. BRAVO				
CONTRACT No.				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°				
APICAL INDUSTRIES INC. dba DART AEROSPACE				
SKID DEFLECTOR ASSY				
SIZE B	CAGE CODE 07M26	DWG. NO. 647.1700	REV. D	
SCALE NONE			SHEET 4 OF 7	

1 2 3 4 5 6 7 8

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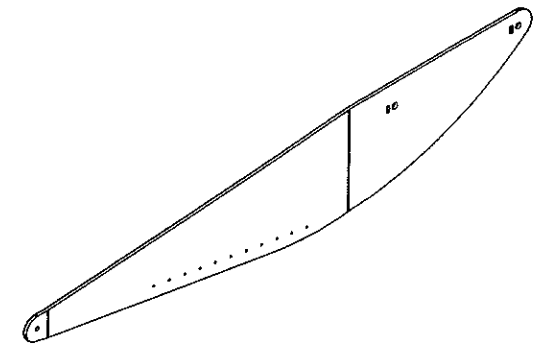
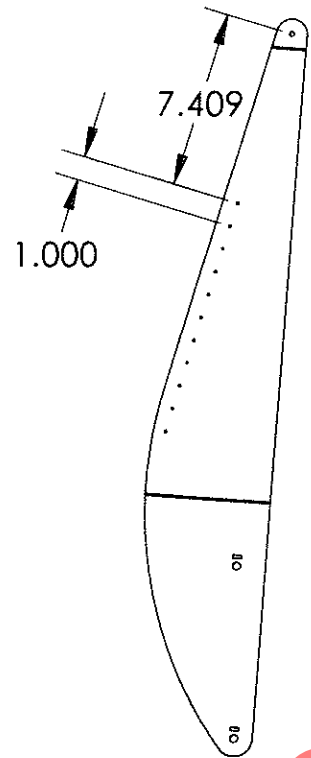
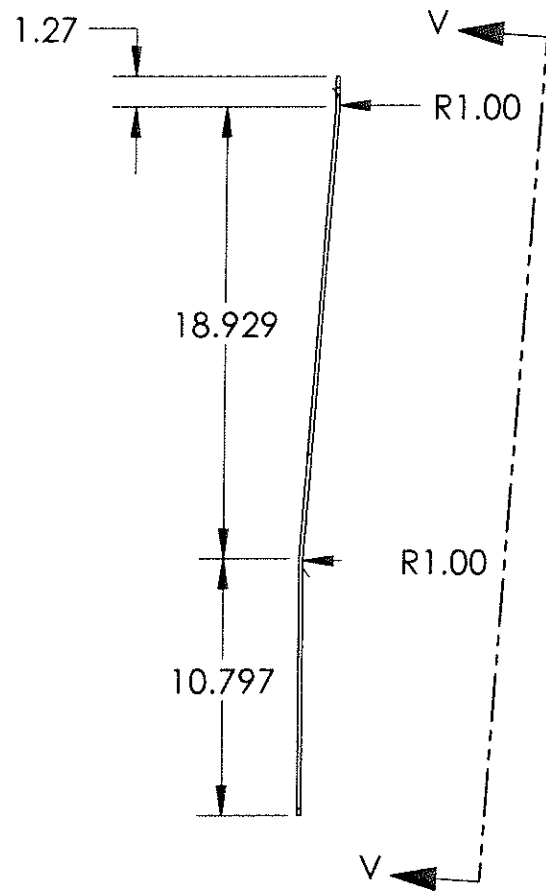


647.1713

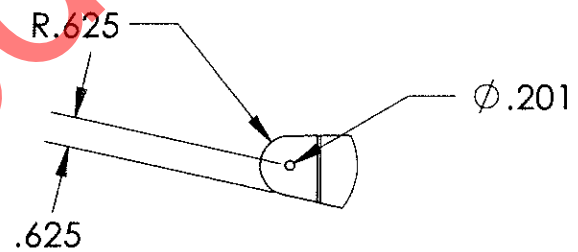
ORIGINAL DATE (MO-DA-YR) 08/05/09		DART 3030 ENTERPRISE CT. SUITE A VISTA, CA 92081 (760)724-5300	
DRAWN BY J. GARDINER		CHECKER P. BRAVO	
DRAWING APPROVAL P. BRAVO		APICAL INDUSTRIES, INC. doo DART AEROSPACE	
CONTRACT NO.		SKID DEFLECTOR ASSY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		SIZE B	CAGE CODE 07MZ6
		DWG. NO. 647.1700	REV. D
		SCALE NONE	SHEET 5 OF 7

1 2 3 4 5 6 7 8

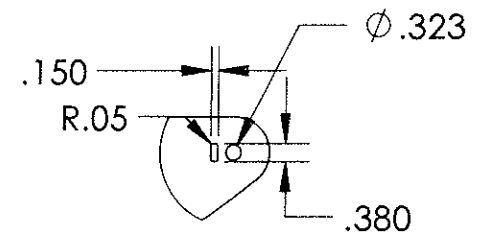
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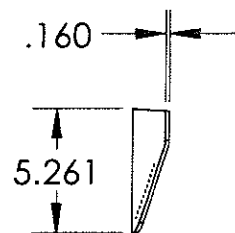
647.1716 SHOWN
647.1717 OPPOSITE



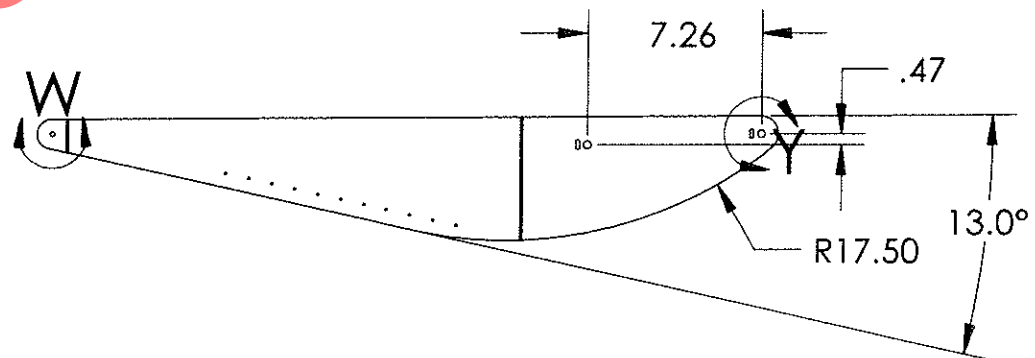
DETAIL W



DETAIL Y
TYP 2 PL



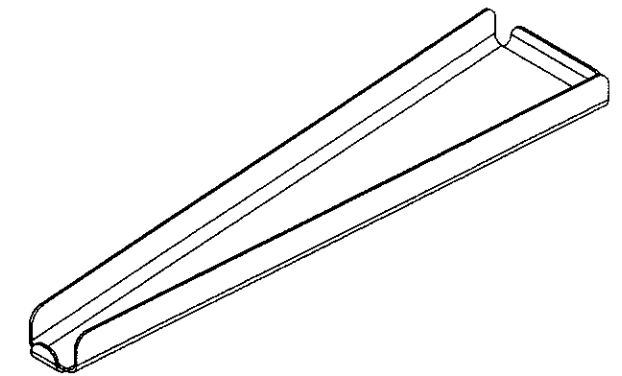
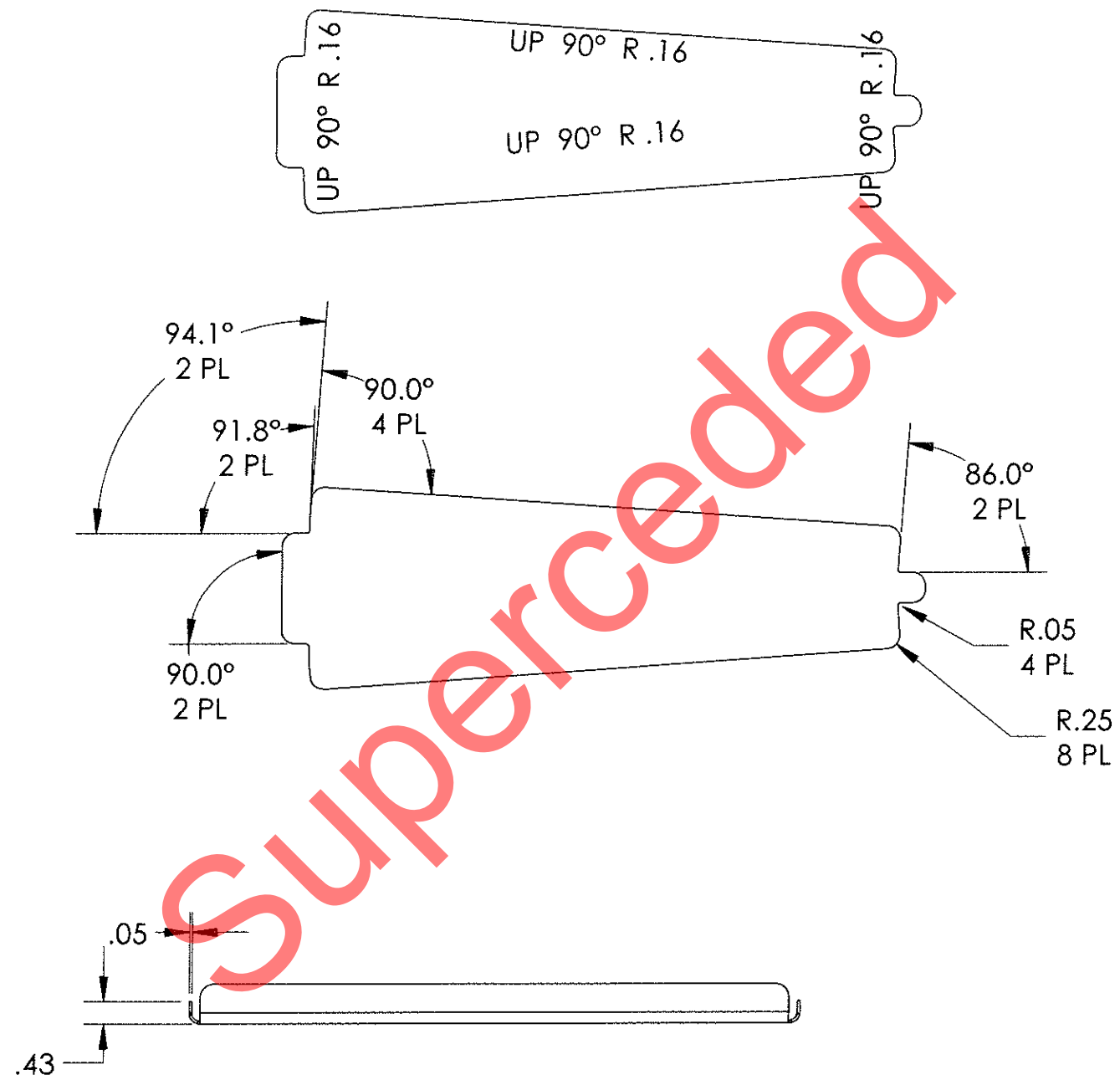
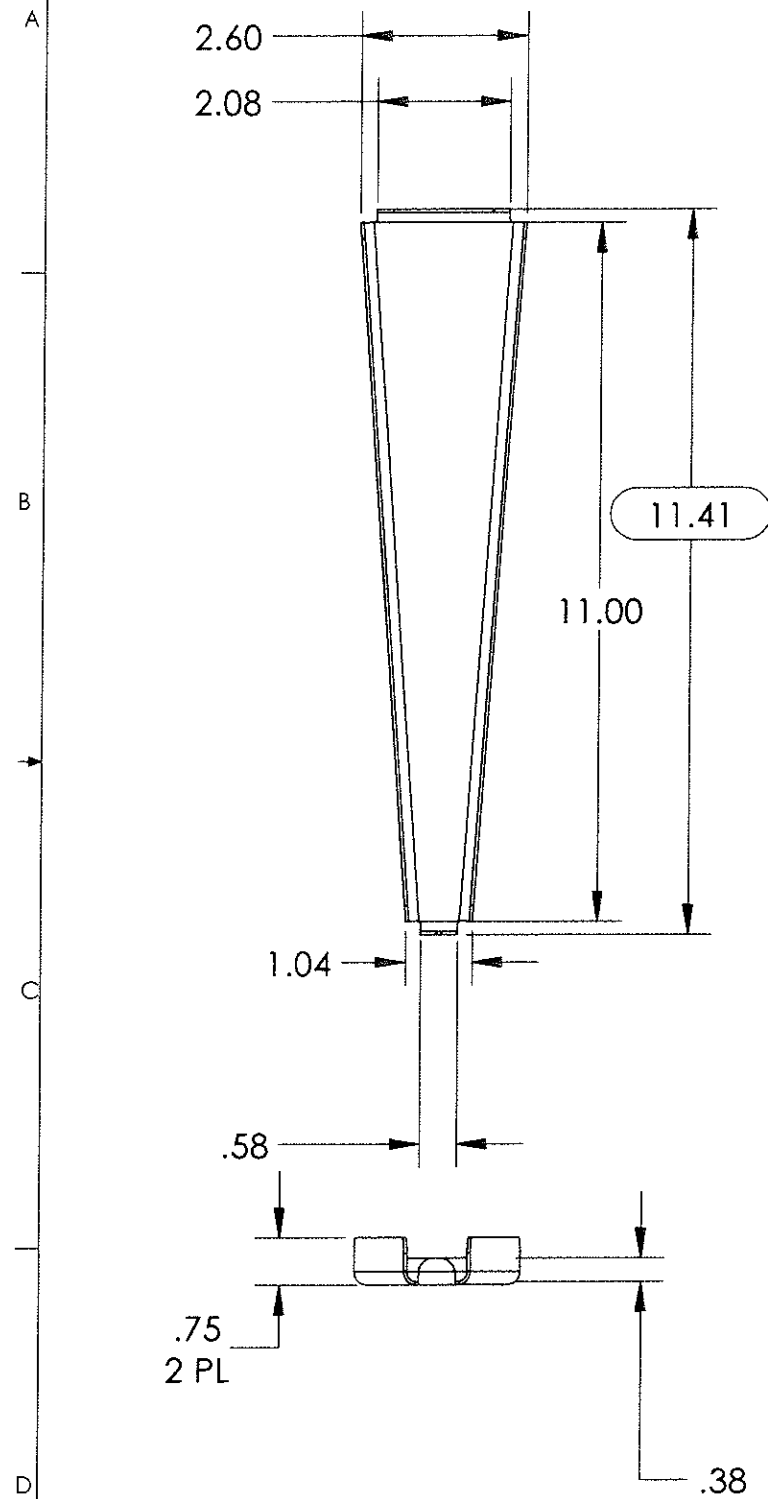
VIEW V-V



ORIGINAL DATE (MO-DA-YR) 08-05-09	 DART 3030 ENTERPRISE CT., SUITE A VISTA, CA 91081 (760)724-5300 APICAL INDUSTRIES, INC. dba DART AEROSPACE			
DRAWN BY S. HUFF				CHECKER P. BRAVO
DRAWING APPROVAL P. BRAVO 08-05-09				
CONTRACT NO.				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°				
SIZE B				CAGE CODE 07MZ6
SCALE NONE		SHEET 6 OF 7		

1 2 3 4 5 6 7 8

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647.1718

ORIGINAL DATE (MO-DA-YR) 08-05-09		DART 3030 ENTERPRISE CT., SUITE A	
DRAWN BY S. HUFF	CHECKER P. BRAVO	AEROSPACE VISTA CA, 92081 (760)724-5300	
DRAWING APPROVAL P. BRAVO 08-05-09		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
CONTRACT No.		SKID DEFLECTOR ASSY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	CAGE CODE 07M26
		DWG. NO. 647.1700	REV. D
		SCALE NONE	SHEET 7 OF 7